

## **PRESENT RESULTS OF GEOCHEMICAL PROSPECTING OF THE STRIEBORNA VEIN DEPOSIT, SLOVAKIA**

KONDELA, J., BLIAEAN, P. (Faculty BERG, Technical University of Košice, Slovakia)

The Strieborna vein deposit is part of the Rožňava ore field, situated in the southern part of the Gemericum. It occurs NW and NE from the Rožňava town and forms a 12 km long and 4 km wide zone. The Rožňava ore field is characterised by the presence of hydrothermal vein deposits of siderite formation.

The Strieborna vein belongs to hydrothermal vein deposit of siderite formation. The vein structure is formed by older siderite and younger quartz – sulphide mineral associations. A prevailing mineral from the sulphide group is tetrahedrite. The chemical composition of tetrahedrit is various, depending on Ag, Hg, Cu, Bi contents. Economically significant elements for mining are silver and copper.

Detailed information on distribution of silver and copper is very important for the geological exploration and mine development in the future. The distribution of silver and copper is shown in 3D (block) diagrams constructed by means of isolines.